

*Ocean Currents*  
Islands of Opportunity: LSAMP  
October 26, 2006  
Kapi'olani Community College  
University of Hawai'i

### Conceiving Oceania

- Western Worldview
- The Pacific Ocean as one-third of a watery planet
- Islands as isolated "dots" in a vast sea
- Postcolonial outposts immune from the impacts of globalization

### Conceiving Oceania

- Oceanic Worldview
- An Ocean of Islands, connected by the sea
- Navigation traditions, marriage, genetics, genealogy, language, and culture.
- Islands divided by Spanish, British, French, and American colonial rule.

### Globalization's profound impact since the "Pacific War"

- Public health improvements, population growth
- Environmental decline
- Emigration and global social networks
- Flows of development aid and remittances
- Consumerism and diseases of modernization
- Nuclear testing
- "Getting off the rock" – participation in military
- British versus American education models

### Mapping Oceania

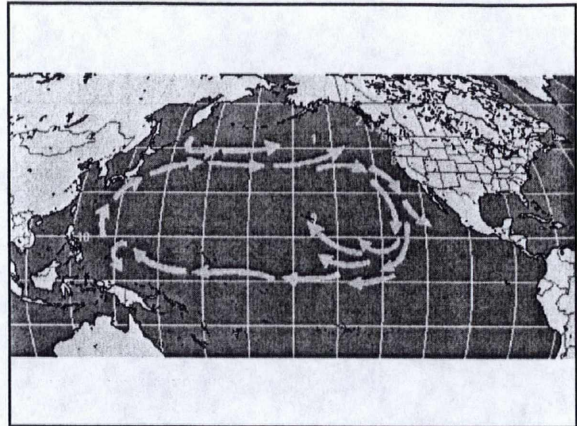
- Three cultural areas
- Melanesia
- Polynesia
- Micronesia
- LSAMP in Polynesia and Micronesia
- American affiliated Pacific Island entities

### American Affiliated Pacific Island Entities

- One state – Hawai'i, Native Hawaiians (Kanaka Maoli) in negotiations for some form of sovereignty.
- Two territories – American Samoa and Guam (with Hawaii, territories beginning in 1899-1900)
- One Commonwealth – Northern Marianas
- Three in "Free Association" – Republic of Palau, Federated States of Micronesia, Republic of the Marshall Islands

## LSAMP Connections - 1

- Marine Science – New EPSCoR Grant
- Global Sea Level Rise
- Marine Debris and Species Impacts
- Mercury Levels in Tuna
- Coastal Zone Ecology
- Terrestrial Species Extinction



## LSAMP Connections - 2

- Kapi'olani NSF STEM/TCUP Pathways, Aligned with EPSCoR Focus Areas
- 1) Watershed Ecology
- 2) Engineering and Space Science
- 3) Biotechnology
- Human Physiology and Performance
- 2 new Associate in Science Degrees – Life Science and Physical Science

## LSAMP Connections - 3

- Developing a New Tradition of Pacific Island Scholarship – Pathways to STEM Majors and Careers
- New Pedagogies – the active learning of traditional Oceania fused with the active learning of today

## Active Learning Today

- Summer Bridge Programs
- High School to College Transitions
- Bridges for Returning Adult Learners
- Enhance high context faculty-student interaction
- STEM Learning Centers – Integrated Technology
- Peer mentoring
- Co-curricular opportunities – science fairs, conferences
- Community-based service and research
- Undergraduate research
- Coherent Pathways to the Baccalaureate and Graduate Schools

## LSAMP Sustainability and Development

- Existing Institutional Structures
- 1) UH System
- 2) Regional Accreditation – ACCJC/WASC, General Education – Learning Outcome Requirements – Eportfolio assessment
- 3) Pacific Postsecondary Education Council
- 4) Center for Pacific Islands Studies (UHM)
- 5) Pacific Islands Development Program at the East-West Center

## Existing Institutional Structures

- 6) Hawai'i Pacific Islands Campus Compact
- A) Service-Learning and Community Engagement
- B) 16 colleges and universities, including all the LSAMP campuses in Hawai'i, American Samoa, Northern Marianas, and Guam CC.
- C) Funded through 2009 by Corporation for National and Community Service
- 7) Pacific Resources for Education and Learning

## New Grants Funded

- U.S. Department of Education, Title III, Native Hawaiian-Serving Institution
  - 2006 STEM Learning Center - \$819,000
    - ❖ Enhanced active learning, peer mentoring, undergraduate research
  - 2007 STEM Learning Center - \$750,000
    - ❖ Enhanced web-based and distance learning

## New Grant Funded

- NSF – Science Education for New Civic Education Responsibilities (SENCER)
  - "Early Birds and Night Owls: Analyzing Sleep in Society"
    - ❖ Lab-based research
    - ❖ Community-based service and research
    - ❖ Sleep across the human lifespan
    - ❖ Science teacher preparation

## New Grant Submitted

- NSF – STEM Talent Expansion Program (STEP)
  - "STEP UP: STEP in Urban Polynesia"
    - Hawaiian, Pacific Islanders, and Filipinos
    - ❖ Summer Bridge Program
    - ❖ Computer Construction and Ownership
    - ❖ Community-based service and research
    - ❖ Retention and Transfer Strategies

## STEP UP: STEP in Urban Polynesia

- GOALS
  - 1) Increase number of students:
    - A) in STEM pipeline from 185 to 485
    - B) who complete STEM A.S. degrees from zero to 290
    - C) matriculating to UHM and UHH from 90 to 280
  - 2) Institutionalize and sustain support

## Mahalo and Fa'afetai

- Terri Chong, Hawai'i EPSCoR
- Rose Tseng, Dan Brown, and Carmen Perez-Frayne, UHH – LSAMP
- Neal Smatresk, UHM
- Bernard Bernard Ploeger, Chaminade University
- Colleagues at Kapi'olani Community College – Malama Hawaii Faculty, John Rand, Judith Kirkpatrick, Kelli Goya, Suzan Akin, and Bob Moeng, Louise Pagotto, Leon Richards.
- Dr. Arthur Hicks, NSF/LSAMP